

## Amendments to the Claims

Claims 1-6 (canceled)

Claim 7 (currently amended) ~~The wastewater treatment system of claim 6,~~A wastewater treatment system comprising:

- a) means of decontaminating wastewater;
- b) means of measuring control parameters of the wastewater;
- c) means for controlling said decontamination means; and
- d) a programmable logic controller,

wherein a user receives control parameter data and controls said wastewater treatment system from a remote location,

wherein said decontamination means comprise:

- i.) a coagulation stage;
- ii.) an energized magnetic media filtration stage;
- iii.) an accelerated electro-chemical oxidation stage; and
- iv.) a sludge and media handling stage,

wherein said coagulation stage comprises a primary reactor,

wherein said primary reactor includes a grinder, loosening means, and an energized media bed.

Claim 8 (original) The wastewater treatment system of claim 7, further comprising perforated titanium plates.

Claim 9 (original) The wastewater treatment system of claim 7, further comprising bipolar electrodes connected to either end of said primary reactor.

Claim 10 (original) The wastewater treatment system of claim 9, wherein said bi-polar electrodes comprise:

a fixed anode;

a fixed cathode; and

a power supply wherein said power supply is attached to said anode and said cathode for producing an electrical current through said primary reactor.

Claim 11 (original) The wastewater treatment system of claim 7, wherein said loosening means comprise at least one of vibrational, rotational, pneumatic, hydraulic, or electromagnetic.

Claim 12 (original) The wastewater treatment system of claim 11, wherein said rotational loosening means comprises mixer rods.

Claims 13-15 (canceled)